

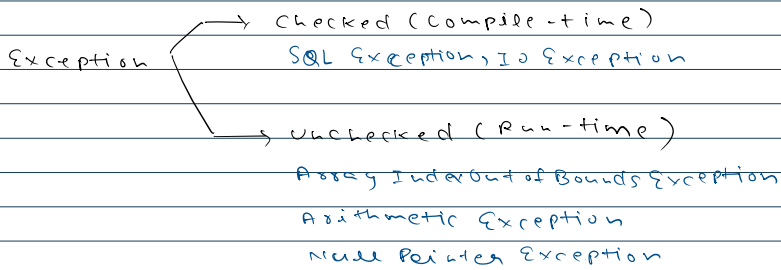
Exception Handling

Exception

An exception is an unwanted or unexpected event, that disrupts the normal flow of program.

Error v/s Exception

Notop



Java Exception Keywords

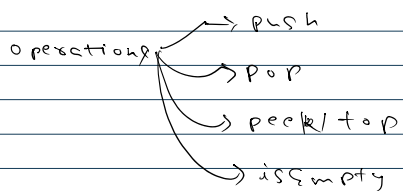
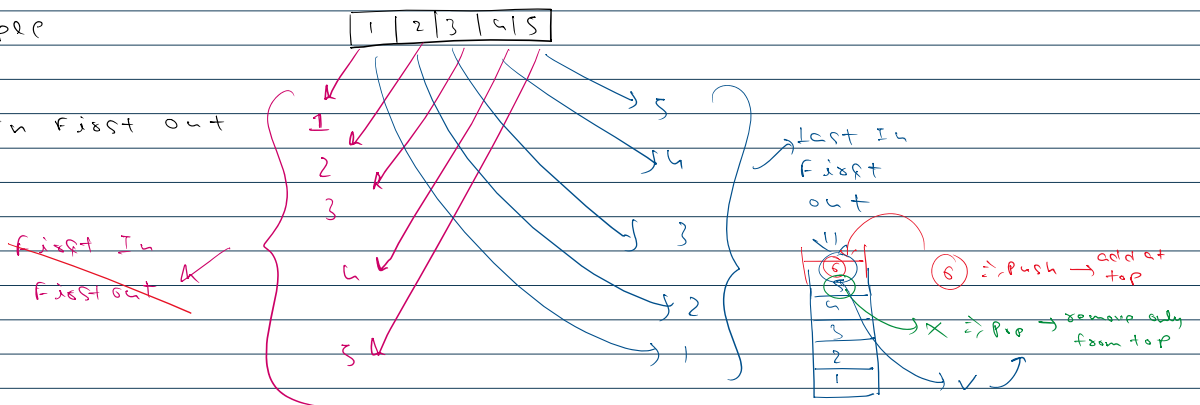
try
catch
finally
throw
throws

Stack

1, 2, 3, 4, 5

LIFO principle

→ Last In First out

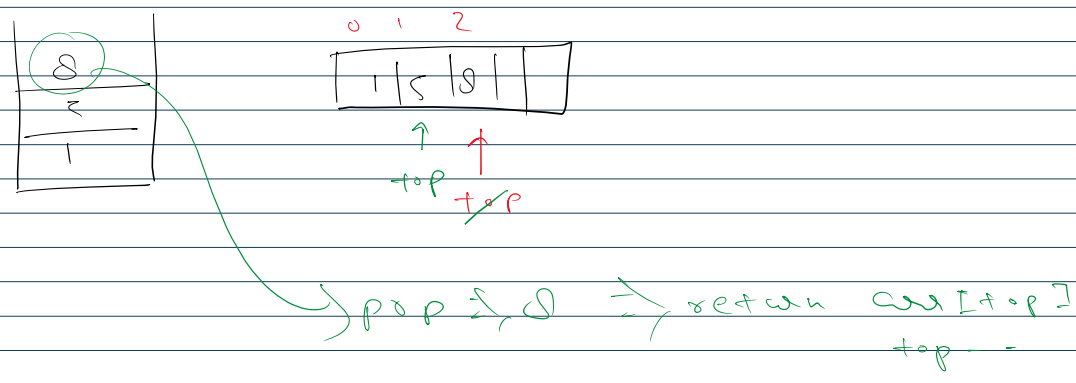
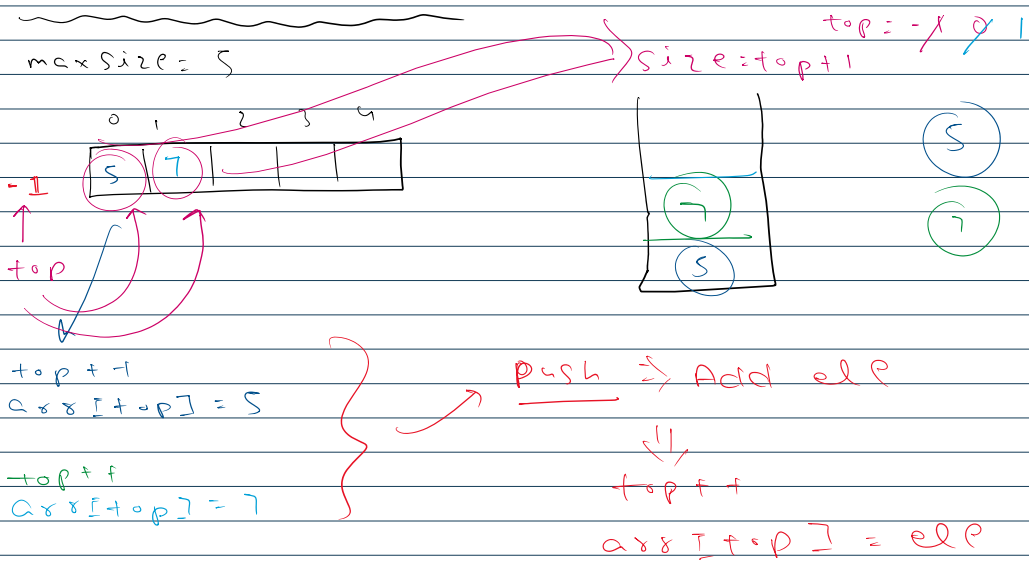


Stack Implementation

maxSize = 5

size = top + 1

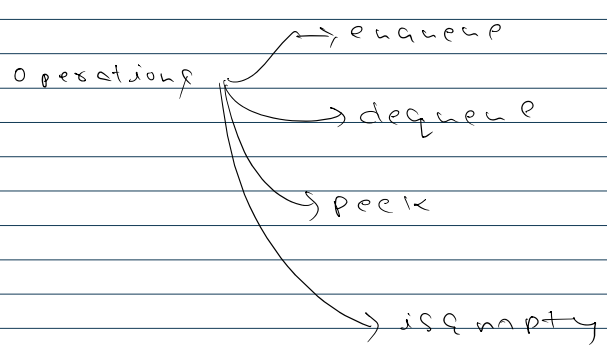
top = -1 / 0 / 1



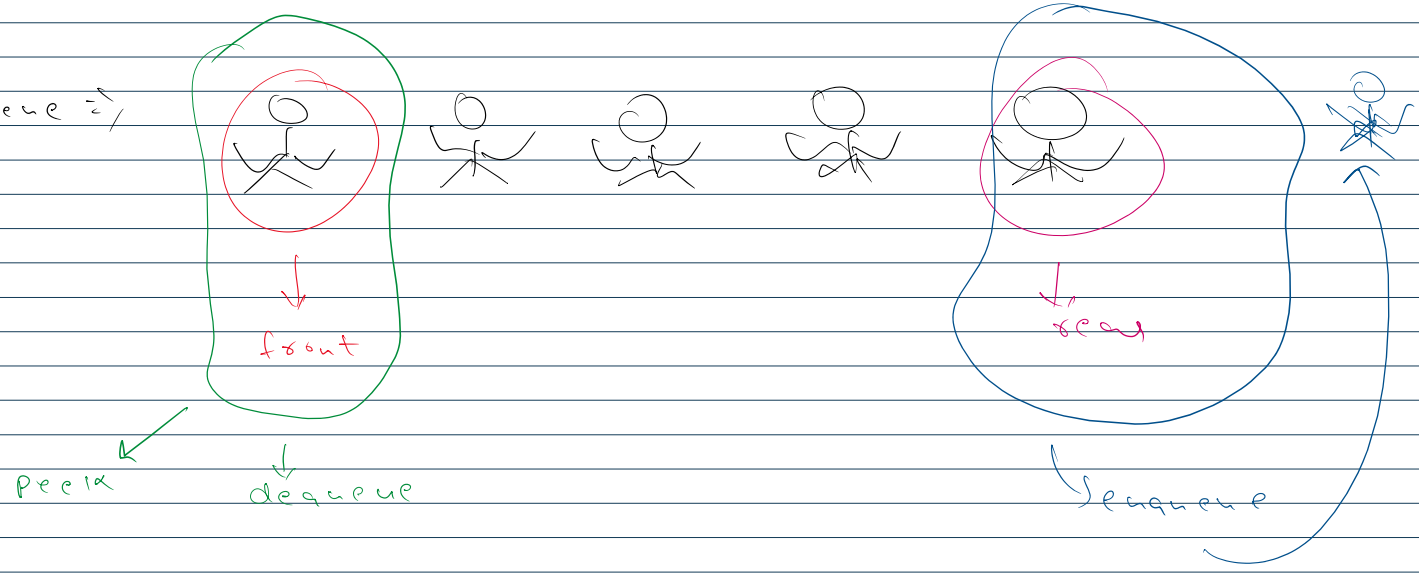
Queue

It follows FIFO principle.

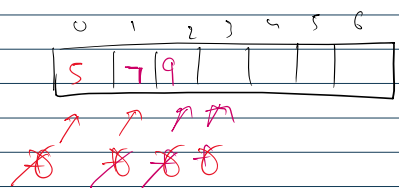
First In First out



Queue \Rightarrow



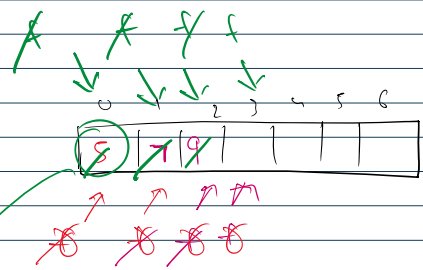
Queue Implementation



\Downarrow
 $arr[rear] = \text{ele};$
 $rear++;$

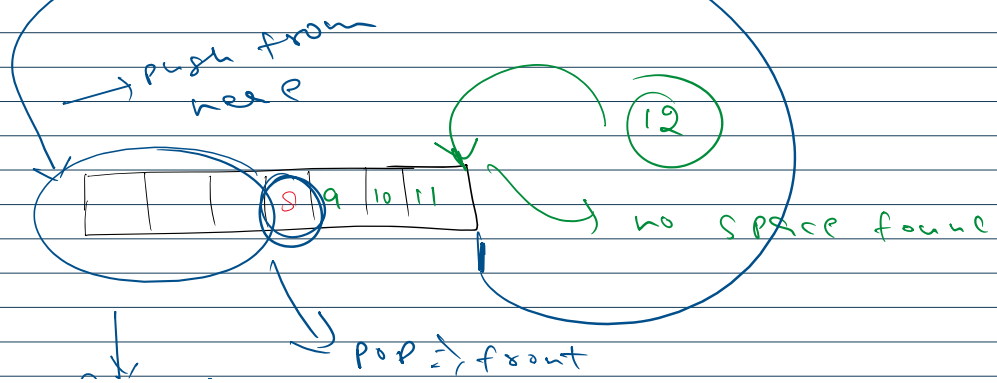
$rear = 0 \times 2 \times 3$
 $front = 0$

$enq \rightarrow 5 \Rightarrow arr[0] = \text{ele}$
 $0++;$
 $enq \rightarrow 7$
 $enq \rightarrow 9$



$rear = 0 \times 2 \times 3$
 $front = 0$

\Downarrow
 $\text{ele} = arr[front];$
 $front++;$
 $size--;$



↓
Circular
queue

↓
pop ⇒ front

